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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-------------|----------------------|---------------------|------------------|
| 09/652,241 | 08/31/2000 | Chung Ho | 99PS011/KE | 3106 |
| 7590 | 05/20/2005 | | EXAMINER | |
| Intellectual Property Development Jack J'Maev 187 W. Orangethorpe Ave Ste H Placentia, CA 92870 | | | LEE, MICHAEL | |
| | | | ART UNIT | PAPER NUMBER |
| | | | 2614 | |
| DATE MAILED: 05/20/2005 | | | | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | | |
|------------------------------|------------------------|---------------------|------|
| Office Action Summary | Application No. | Applicant(s) | |
| | 09/652,241 | HO ET AL. | |
| Examiner | | Art Unit | 2614 |
| M. Lee | | | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 17 November 2004.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-12 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-12 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

| | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date: _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date: _____ | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Coffin et al. (5,768,647).

Regarding claim 1, Coffin discloses a positioning control assembly showing an actuator (16), an indicator plate (32,34), a sensor (80), and a controller (100). The position of assembly is controlled by the feedback loop as shown in Figure 6, which is the same as the movement control as claimed. However, Coffin does not specify that the assembly is a display assembly as claimed. Instead, a camera assembly is being controlled. In any event, it is understood that the positioning control assembly in Coffin could be used to control the position of any device other than a camera because the base member 50 could be used to support or carry anything that could fit into it. Hence, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to replace the camera assembly with a display assembly to perform the well known functions as claimed. The replacement would have considered an obvious design choice.

Regarding claim 2, note the servo motor 16.

Regarding claim 3, Coffin does not specify the linear electric motor as claimed. The examiner takes Official Notice that rotary electric motor and linear electric motor can be used interchangeable with each other since they both are intended to provide motive force to a movable device. Such change would have considered an obvious design choice. Hence, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to replace the rotary motor in Coffin with a linear motor to perform the well known functions as claimed.

Regarding claim 4, Coffin shows a flat disk 32 but does not specify the two inches diameter as claimed. Since the disk diameter in Coffin could be in any size, it would have considered an obvious design choice.

Regarding claim 5, the disk 32 is intended to be metal.

Regarding claim 6, the sensor is an infrared sensor (col. 3, lines 1-6).

Regarding claim 7, Coffin does not specify that the sensor is a mechanical device as claimed. The examiner takes Official Notice that using mechanical sensors such as a switch instead of optical sensors is well known in the art. Mechanical switches are more cost effective than optical sensors since the former require less control circuits. Hence, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to replace the optical sensor with a mechanical switch to perform the well known functions as claimed.

Regarding claims 8-12, see the corresponding rejections as set forth above.

Response to Arguments

3. Applicant's arguments filed on 11/17/04 have been fully considered but they are not persuasive.

4. In response to applicant's argument that "an actuator for positioning a display system," a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. In a claim drawn to a process of making, the intended use must result in a manipulative difference as compared to the prior art. See *In re Casey*, 370 F.2d 576, 152 USPQ 235 (CCPA 1967) and *In re Otto*, 312 F.2d 937, 939, 136 USPQ 458, 459 (CCPA 1963).

In response to applicant's argument that Coffin fails to disclose an indicator plate, the gear 32, flag 34, and optical sensor 80 in Boice are functioned to define a known position of operating gear 32, which clearly meets the indicator plate as claimed.

In response to applicant's argument that applicant avers that the examiner has gleaned the knowledge to modify the reference from the applicant's application, there was no modification to Coffin other than replacing the camera with a display device in the rejection. If a prior art structure is capable of performing the intended use as recited in the preamble, then it meets the claim. See, e.g., *In re Schreiber*, 128 F.3d 1473, 1477, 44 USPQ2d 1429, 1431 (Fed.Cir. 1997).

In response applicant's argument that should the Patent Office choose to claim that any of the claims in the present invention are obvious under an official notice, then

the examiner must, at applicant's request, submit an affidavit containing supported facts that substantiate the examiner's claim of obviousness, a copy of U.S. Patent no. 4,456,934 (Wedman et al.) is furnished along with this communication. Wedman teaches that using either a rotary motor or a linear motor as the driving motor in a servomechanism is well known (see column 1).

In response to applicant's argument that applicant respectfully requests that the examiner personally execute and deliver to the applicant an original affidavit containing supporting facts to substantiate the examiner's claim of obviousness with respect to how these two different types of sensors can be used interchangeably in the claimed invention, a copy of U.S. Patent no. 4,038,523 (Widmer et al.) is furnished along with this communication. Widmer teaches that mechanical position indicating switches can be replaced with optical sensors (see col. 9, lines 39-44).

In view of above arguments, the examiner concludes that the applicant fails to overcome the rejection, and therefore, the Office rejection stands.

Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to M. Lee whose telephone number 571-272-7349. The examiner can normally be reached on Monday through Thursday from 9 to 6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Miller, can be reached on 571-272-7353. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



M. Lee
Primary Examiner
Art Unit 2614